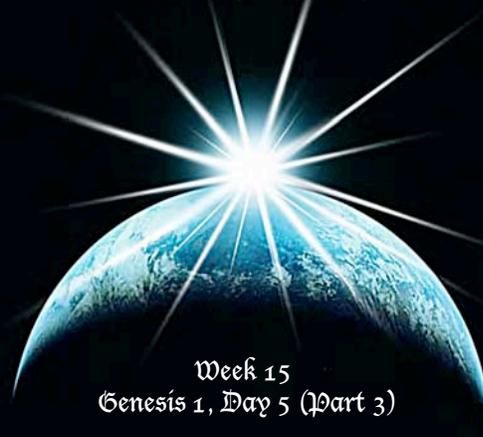


# Science and the Bible

A Course of Study  
by  
Dr. David C. Bossard  
Winter, 2008 (Continued)



This is week 15 in a course of study in Science and the Bible. We are continuing the discussion of the creation of animals,

We are still technically in day 5 because the first animal life appeared in water, however we will read the first part of Day 6

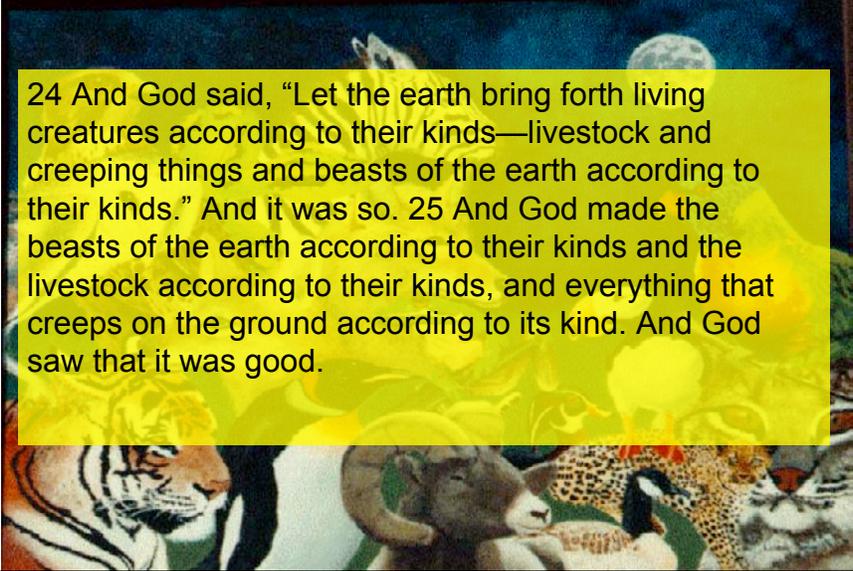
Last time we looked at the major phyla of plant and animal life. These phyla represent the major innovations in the body plan.

For reasons that will become clear today, I have avoided calling these major innovations "advances" as if everything started

out very simple and gradually grew in complexity. That was the thinking of Darwin and other early evolutionists. From our

Viewpoint, these innovations are just different construction methods which ALL OWED the plants

## Genesis 1:20-23, Day Six: Creation of Land Animals



24 And God said, “Let the earth bring forth living creatures according to their kinds—livestock and creeping things and beasts of the earth according to their kinds.” And it was so. 25 And God made the beasts of the earth according to their kinds and the livestock according to their kinds, and everything that creeps on the ground according to its kind. And God saw that it was good.

We are still technically in Day 5, but I'd like to read the first part of day 6, because that is where the creation is heading.

I will say something about why the land animals are later.

# Genesis 1:20-23, Day Five: Creation of the First Animals

The variety of plant and animal body plans. [Show phylum charts]

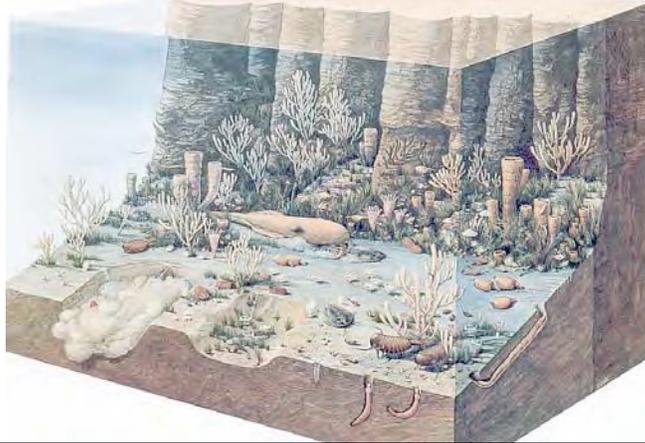
- Major Animal types

## Types of Animals

Phylum	Examples	Milestone
Porifera	sponges	multicellularity
Cnidaria	jellyfish, hydra, coral	Tissues, stingers
Platyhelminthes	flatworms	bilateral symmetry
Nematoda	roundworms	pseudocoelom
Mollusca	clams, squids, snails	coelom
Annalida	earthworms, leeches	segmentation
Arthropoda	insects, spiders, crustaceans	jointed appendages
Echinodermata	starfish	deuterostomes
Chordata	vertebrates	notochord

## Genesis 1:20-23, Day Five: Cambrian Explosion

All body plans (phyla) appear suddenly at (almost) the same time in the fossil record.

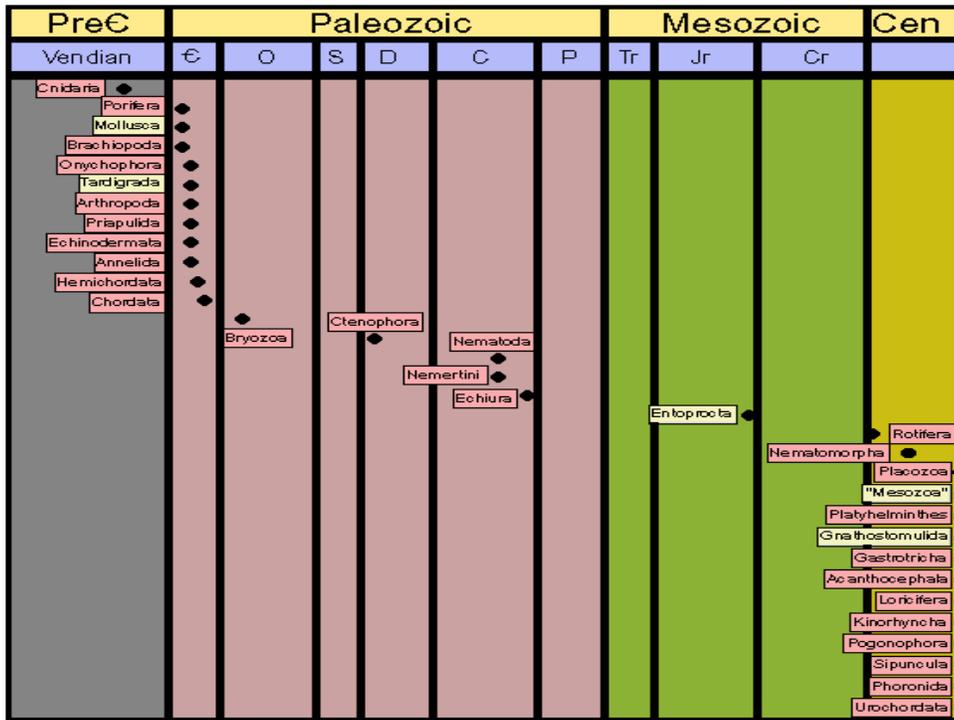


"Almost every metazoan phylum with hard parts, and many that lack hard parts, made its first appearance in the Cambrian.

The only modern phylum with an adequate fossil record to appear after the Cambrian was the phylum Bryozoa, which is not known before the early Ordovician."

<http://www.ucmp.berkeley.edu/cambrian/camblife.html>

"The Cambrian explosion or Cambrian radiation describes the seemingly rapid appearance of most major groups of complex animals in the fossil record"  
Wikipedia



First appearances in the fossil record. These dates are always subject to change as new fossil discoveries occur.

The Cambrian era (in fact most of the eras) was named by English geologists. The Cambrian was the rock layer that was the Highest then known to contain animal fossils.

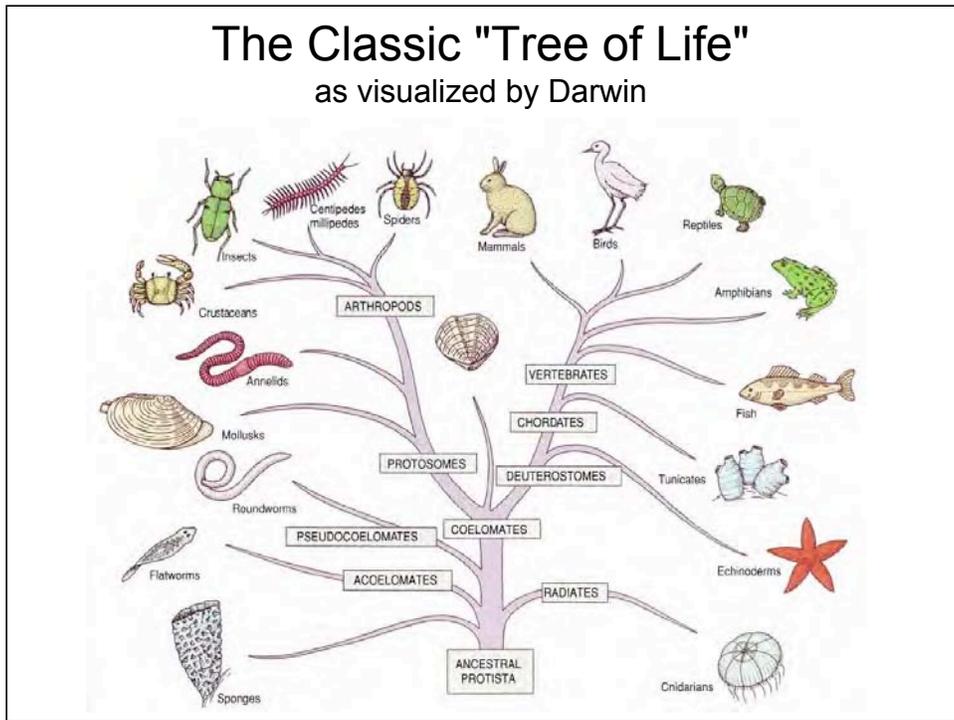
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# The Classic "Tree of Life" as visualized by Darwin

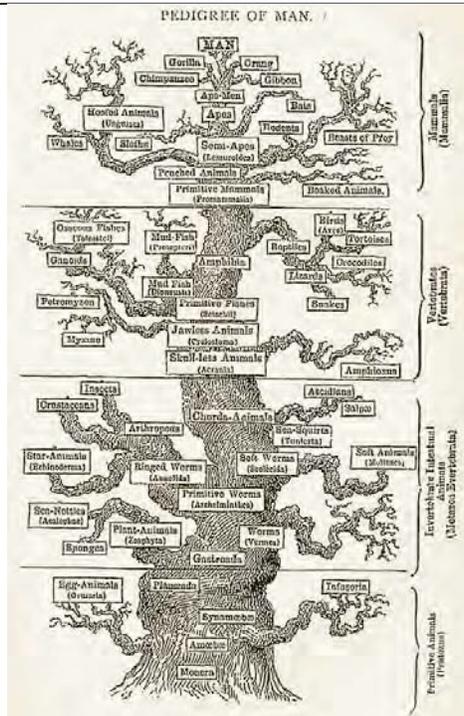


The classic "tree of life" as Darwin visualized it has a trunk with large and then smaller branches radiating out from it.

This is NOT what the fossil record indicates!



Darwin's Tree of Life



Genesis 1:20-23, Day Five:  
Cambrian Explosion

Example of segmented body plan  
Trilobite



VIDEO - CLEANING TRILOBITES IN MOROCCO

THE "GILDED" TRILOBITE BODY (IRON PYRITE)

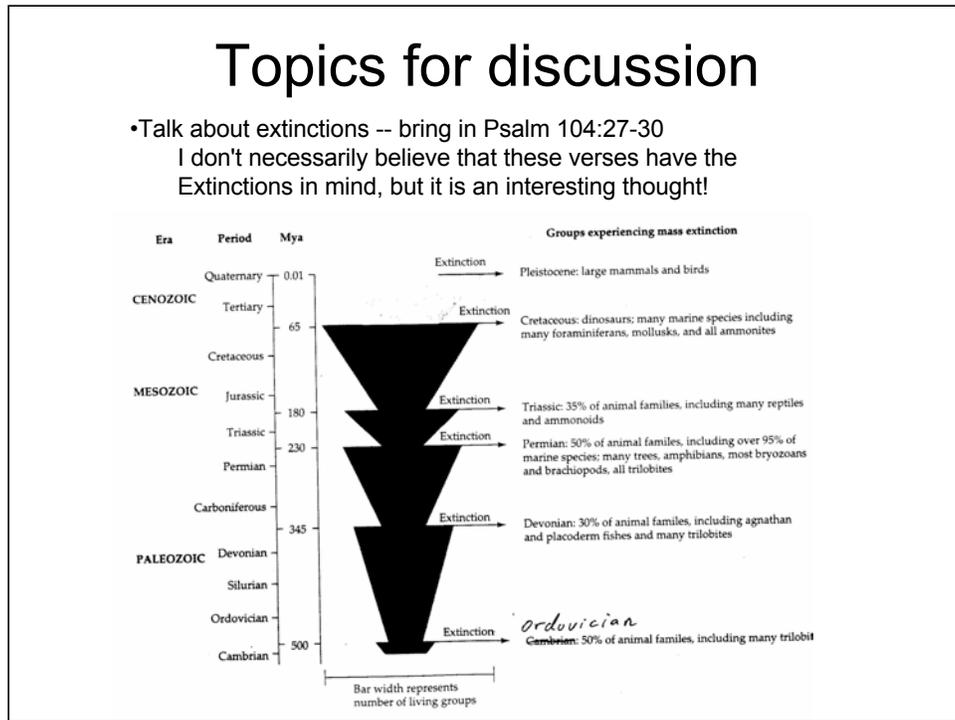
Show the videos on Moroccan trilobite "mining"

# Topics for discussion

- More on body plans
  - the 39 phyla
  - all suddenly appear in the fossil record "Cambrian explosion"
  - body segments
  - experiments on hox genes -- growing legs, eyes and antennae
- Yes - there is a progression of complexity,  
but ALL life is exceedingly complex!!!
- \* Talk about extinctions -- bring in Psalm 104:

# Topics for discussion

- Talk about extinctions -- bring in Psalm 104:27-30  
I don't necessarily believe that these verses have the Extinctions in mind, but it is an interesting thought!



Show the video on the mass extinction at 65M -- dinosaurs. Talk by ??  
At IBRI -- became a believer.